P3102-4g Wireless Broaband VoIP Gateway Router

Description:

P3102-4g Wireless Broadband VoIP Gateway Router integrates full-featured router/firewall with Analog Terminal Adapter (ATA) into one small platform and enables server providers to create new toll-quality voice servers to their customers.
P3102-4g Wireless Broadband VoIP Gateway Router integrates full-featured firewall, router, and VoIP Getaway with standard-based QoS and traffic prioritization to provide multiple traffic priority queues, which ensure voice communication and latency/bandwidth sensitive traffic. The priority queuing mechanism enables server providers to create new services of data, voice, and video(Triple-Play). It's built-in firewall,. NAT, and NAPT enable business applications with enhanced network security.
P3102-4g Wireless Broadband VoIP Gateway Router's industry standards based DSL Forum TR-069 implementation let service providers perform OA&M of router remotely.

Standard-Based Routing:

Comprehensive routing support on features including Network Address Translation(NAT), Network Address Port Translation (NAPT), Dynamic Domain Name Server (DDNS) relay, Dynamic Host Configuration Protocol(DHCP), and Point-to –Point Protocol over Ethernet (PPPoE).

Toll-Quality Voice; Enable Triple-play

Standard-based VoIP support with QoS and traffic prioritization to ensure toll-quality voice experience for subscribers. Enable service providers to provide new services of data, voice, and video(Triple-play)

Standard-Based Network Management

Support industry standard DSL Forum TR-069 with SSL)Secure Socket Layer) and enable service providers to perform router management tasks remotely; these includes configuration changes performance monitoring, and firmware upgrades.

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Router Features:

Routing

- DHCP client for WAN
- Static IP option
- DHCP server for WAN
- RFC 2516 Point-to-Point Protocol over Ethernet (PPPoE)
- DNS proxy relay ; support 2 DNS entries
- Dynamic DNS support
- Network Address Translation (NAT)
- Network Address Port Translation (NAPT)
- RIP v1/v2 and static route support
- VPN pass through (IPSec-ESP Tunnel mode, L2TP,PPTP)

Management

- DSL Forum TR-069 CPE WAN Management
- DSL Forum TR-064 CPE LAN Management
- Wed-based Graphical User Interface
- SNMP v1/v2 support
- UPnP support
- System Logging

Voice Features:

VoIP Protocol

- RFC3261 Session Initiation Protocol(SIP)
- RFC2327 Session Description Protocol(SDP)
- RFC2889 Real-Time Transport Protocol (RTP)
- ITU-T T.38 Fax over IP

Telephone Interface

- 2 RJ-11 FXS ports for analog phone connection

Codecs /Dialing /Tone/ QoS

- ITU-T G.711, G.726, G.729 support
- Volume gan control
- Static and dynamic jitter buffer
- G.168 echo cancellation
- Voice activity detection and comfort noise generation
- Silence Threshold
- Configurable telephone hook flash timer
- Independent dialing plan(E.164) support
- In-band DTMF tone generation (G.711), and out-of-band DTMF(RFC2833)
- ToS and Diffserv supprt

Wireless Features

- IEEE802.11b/g Wi-Fi
- Supports up to 54Mbps
- Data encryption-64/128- bit WEP/TKIP/AES-CCM/AES-OCB/802.1x, and WPA
- Radio Frequency 2.4GHz band
- Modulation Type
  - DSSS –BPSK, QPSK, CCK
  - OFDM -BPSK, QPSK, 16QAM, 64QAM
- Transmit Power-13 to 17 dBm
- Receiver Sensitivity- 68 to 90 dBm

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Physical Features:

Physical Interface

- One RJ-45 Ethernet port for WAN 10/100 Mbps connection
- Four RJ-45 Ethernet ports for LAN 10/100 Mbps connection
- Three RJ-11 FXS ports for phone/fax connection
- Power Jack
- Reset button
- External antenna

LED Indicators

- Power
- WAN connectivity/activity
- LAN connectivity/activity
- Internet IP connection
- VoIP registration status
- Voice call status

Power

- External power supply, Input 120/240 VAC 60Hz 25W, Output 12VDC 1000Ma

Environment

- Temperature: IEC68-2-14
- 0 to 40 degrees C (Standard Operating)
- -40 to 70 degrees C(Non-condecsing)
- Vibration:IEC 68-2-36, IEC68-2-6
- Shock:IEC68-2-29
- Drop: IEC68-2-32

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